

University of Georgia

Second crop drip injection of DMDS, Vapam, and Eptam

Trial ID: Veg38-07
 Location: Ponder Farm

Protocol ID:
 Study Director: Stanley Culpepper
 Investigator: Stanley Culpepper

Reps: 3 Plots: 6 by 30 feet
 Spray vol: 14.8 gal/ac Mix size: 2 liters (min .69451)

Trt No.	Treatment Name	Form Conc	Form Unit	Form Type	Rate Rate	Growth Unit	Appl Code	Amt to Measure	Product	Plot No.	By Rep	
										1	2	3
1	None									103	205	304
2	Eptam 4 pt/A									101	203	305
3	Vapam 50 GPA									105	202	301
4	DMDS EC @ 53 GPA									102	204	303
5	DMDS EC @ 70 GPA									104	201	302

Sort Order: Treatment

Product quantities required for listed treatments and applications in one trial:

Amount*	Unit	Treatment Name	Form Conc	Form Type	Lot Code
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* 'Per area' calculations based on spray volume= 14.8 gal/ac, mix size= 2 liters (mix size basis).
 * Product amount calculations increased 25 % for overage adjustment.

Trial Comments

OBJECTIVE: Determine the response of emerged nutsedge to drip injections of Eptam, Vapam, or DMDS.

Nutsedge Control:

1. At 22 DAT, Eptam and Vapam provided 68 to 70% control. DMDS provided little to no control.
2. By 34 DAT, control by Eptam and Vapam had dropped to 56 to 58%.

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Pest Code	CYPRO	CYPRO	CYPRO
Rating Date	Aug-05-07	Aug-10-07	Aug-22-07
Rating Data Type	control	control	control
Rating Unit	%	%	%
Assessed By	SC	SC	SC
Days After First/Last Applic.	18	23	35
Trt-Eval Interval	19 DA-A	24 DA-A	36 DA-A
Trt No.	Treatment Name	Rate	Unit
1	2	3	
1	None	0 b	0 b
2	Eptam 4 pt/A	50 a	68 a
3	Vapam 50 GPA	75 a	70 a
4	DMDS EC @ 53 GPA	18 b	13 b
5	DMDS EC @ 70 GPA	20 b	0 b
LSD (P=.05)		29.0	25.6
Standard Deviation		15.4	13.6
CV		47.22	44.84
Bartlett's X2		0.439	1.408
P(Bartlett's X2)		0.803	0.494

Means followed by same letter do not significantly differ (P=.05, Duncan's New MRT)

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General Trial Information

Study Director: Stanley Culpepper **Title:** Ext. Weed Science
Affiliation: Univ. of Georgia
Postal Code: 31794 **E-mail:** _____

Investigator: Stanley Culpepper **Title:** Ext. Weed Science
Affiliation: Univ. of Georgia
Postal Code: 31794 **E-mail:** _____

Keywords:

Trial Location

City: TyTy **Trial Status:** completed
State/Prov.: GA **Trial Reliability:** excellent
Postal Code: 31794 **Initiation Date:** Jul-18-07
Country: USA **Planned Completion Date:** _____
_ -Latitude of LL Corner °: _____ _ -Longitude of LL Corner °: _____
Altitude of LL Corner: _____ **Unit:** _____ **Angle y-axis to North °:** _____
Map Reference: _____
Directions:

Conducted Under GLP: _ **Official Trial Code:** _____
Conducted Under GEP: _ **Other Trial Code:** _____

Guideline	Description
1.	

Objectives:

Conclusions:

Cooperator/Landowner

Cooperator: _____ **Country:** _____
Organization: _____ **Phone No:** _____
Address 1: _____ **Fax No:** _____
Address 2: _____
City: _____
State/Prov: _____
Postal Code: _____ **E-mail:** _____

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Crop Description	
Crop 1: _____	_____
Variety: _____	Description: _____
BBCH Scale: _____	Planting Date: _____
Planting Method: _____	Rate, Unit: _____
Depth, Unit: _____	Perennial Age, Unit: _____
Row Spacing, Unit: _____	Spacing Within Row, Unit: _____
Seed Bed: _____	Soil Temperature, Unit: _____
Soil Moisture: _____	Emergence Date: _____
Harvest Date: _____	Harvest Equipment: _____
Harvested Width, Unit: _____	Harvested Length, Unit: _____
% Standard Moisture: _____	Moisture Meter: _____
Weighing Equipment: _____	_____

Pest Description	
Pest 1 Type: _____	Code: _____
Common Name: _____	
Description: _____	

Site and Design

Plot Width, Unit: 6 FT Site Type: Ponder Farm
 Plot Length, Unit: 30 FT Tillage Type: Conventional
 Replications: 3 Study Design: Randomized Complete Block
 % Slope: _____ Soil Drainage: _____

Trial Initiation Comments:

	Previous Crops	Previous Pesticides	Year
1.			

Maintenance								
No.	Date	Maintenance Treatment Name	Form Conc	Form Unit	Form Type	Rate	Rate Unit	Tank Mix
1.								

Comment:

Field Prep./Maintenance:

Soil Description

Description Name: _____

% Sand: 94 % OM: 1.1 Texture: sandy loam
 % Silt: 2 pH: 6.5 Soil Name: _____
 % Clay: 4 CEC: _____ Fert. Level: _____

Analyzed By: _____

Additional Measured Elements		
Element	Quantity	Unit

Moisture Conditions

Overall Moisture Conditions: Irrigated
 Closest Weather Station: _____ Distance: _____ Unit: _____

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	Date	Time	Amount	Unit	Type	Interval	Unit
1.							

Application Description

	A
Application Date:	Jul-18-07
Time of Day:	4:00pm
Application Method:	broadcast
Application Timing:	preplant
Application Placement:	on soil
Applied By:	
Air Temperature, Unit:	89 F
% Relative Humidity:	25
Wind Velocity, Unit:	4 mph
Wind Direction:	
Dew Presence (Y/N):	n
Water Hardness:	
Soil Temperature, Unit:	90 F
Soil Moisture:	dry
% Cloud Cover:	0
Next Rain Occurred On:	

Crop Stage At Each Application

	A
Crop 1 Code, BBCH Scale:	
Stage Scale Used:	
Stage Majority, Percent:	
Stage Minimum, Percent:	
Stage Maximum, Percent:	
Diameter, Unit:	
Height, Unit:	
Height Minimum, Maximum:	

Pest Stage At Each Application

	A
Pest 1 Code, Disc., Scale:	
Stage Majority, Percent:	
Stage Minimum, Percent:	
Stage Maximum, Percent:	
Diameter, Unit:	
Height, Unit:	
Height Minimum, Maximum:	
Density, Unit:	
Coverage, Unit:	

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Application Equipment

	A
Appl. Equipment:	drip
Operating Pressure, Unit:	injected PSI
Nozzle Type:	
Nozzle Size:	
Nozzle Spacing, Unit:	
Nozzles/Row:	
Nozzle Calibration, Unit:	
Band Width, Unit:	
Boom ID:	
Boom Length, Unit:	
Boom Height, Unit:	
Ground Speed, Unit:	
Incorporation Equip.:	
Hours to Incorp.:	
Incorp. Depth, Unit:	
Carrier:	water
Spray Volume, Unit:	
Mix Size, Unit:	
Spray pH:	
Propellant:	CO2
Tank Mix (Y/N):	Y

Equipment Comment:

Trt No Treatment Application Comment

Date By Notes

Date By Deviations

Reasons: